

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Previously Presented) A sensor device comprising:
a coated electric wire wound around a detection circuit in a planar manner so as to electrostatically shield the detection circuit, wherein the electric wire is coated with an insulating material.
2. (Original) The sensor device according to claim 1, wherein the coated electric wire is spirally wound around the detection circuit in a single manner.
3. (Previously Presented) The sensor device according to claim 1, further comprising:
a detection circuit board having the detection circuit; and
a cylindrical case;
wherein the coated electric wire is wound around the detection circuit board in a cylindrical manner so as to form a cylindrical surface, and the direction of an axis of the cylindrical surface is parallel to the direction of the axis of the case.
4. (Original) The sensor device according to claim 1, wherein the sensor device is a proximity sensor device comprising a detection coil having a core; and
the detection circuit includes an oscillation circuit having the detection coil serving as a resonance element.
5. (Original) The sensor device according to claim 4, wherein a metallic film for electrostatically shielding the detection coil is formed at the outer surface of the core, and the coated electric wire is electrically connected to the metallic film of the core.
6. (Original) The sensor device according to claim 5, further comprising:
a detection circuit board having the detection circuit;

wherein both ends of the coated electric wire are electrically connected to the metallic film of the core, and are electrically connected to a ground pattern of the detection circuit board at the intermediate portion of the coated electric wire.

7. (Original) The sensor device according to claim 4, wherein the coating strength of the coated electric wire for use in shielding is greater than that of the coated electric wire to be used as a coil wire of the detection coil.

8. (Original) The sensor device according to claim 4, wherein the coated electric wire for use in shielding is the same kind of coated electric wire to be used as a coil wire of the detection coil.

9. (Original) The sensor device according to claim 1, wherein the sensor device is an photoelectric sensor device including a light receiving element for converting light from a region to be detected into an electric signal; and

a signal relating to the state of the region to be detected is output based on an output from the light receiving element.

10. (Original) The sensor device according to claim 9, wherein the coated electric wire is wound also around the light receiving element in a planar manner.

11. (Previously presented) The sensor device according to claim 9, further comprising:

a detection circuit board having the detection circuit;

a cylindrical case; and

a semi-split cylindrical board holder which supports the detection circuit board and is contained inside of the case;

wherein the coated electric wire is wound around the detection circuit board and the board holder in a planar manner.